

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/SE 2005/000043

## A. CLASSIFICATION OF SUBJECT MATTER

**IPC7: B25J 9/16, G05B 19/418, G05B 19/42**  
According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

**IPC7: G05B, B25J, B23Q, G06F**

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

**SE,DK,FI,NO classes as above**

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

**EPO-INTERNAL, WPI DATA, PAJ**

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 20030220715 A1 (R. WILLIAM KNEIFEL II ET AL), 27 November 2003 (27.11.2003), [0007],[0014], [0015],[0024],[0030]; figure 2-4  --	1,9,12-14
X	US 5254923 A (KIYOSHI KANITANI), 19 October 1993 (19.10.1993), column 1, line 30 - line 58; column 4, line 4 - line 23, figures 1,2, abstract  --	1,9,12-14
X	EP 1090722 A2 (FANUC LTD), 11 April 2001 (11.04.2001), figures 1-3,7-8, abstract  --	1,9,12-14

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"B" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"Z" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search	Date of mailing of the international search report
14 April 2005	28-04-2005
Name and mailing address of the ISA/ Swedish Patent Office Box 5055, S-102 42 STOCKHOLM Facsimile No. +46 8 666 02 86	Authorized officer  Ender Dag/MN Telephone No. +46 8 782 25 00

**INTERNATIONAL SEARCH REPORT**

International application No. PCT/SE 2005/000043
---

**C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 03103903 A1 (ABB AB), 18 December 2003 (18.12.2003), page 3, line 26 - line 37; page 8, line 1 - line 33; page 9, line 22 - line 25, figure 1  --	1-14
P	US 20040030452 A1 (STEFAN GRAF ET AL), 12 February 2004 (12.02.2004), see whole document  --	1-14
P	EP 1464452 A2 (KUKA ROBOTER GMBH), 6 October 2004 (06.10.2004), [0053]-[0055], [0063]-[0064]; f figure 1,3  -----	1,2,9,10,12, 13,14

**INTERNATIONAL SEARCH REPORT**International application No.  
PCT/SE 2005/000043

US	20030220715	A1	27/11/2003	US	D468957 S US 6807461 B	21/01/2003 19/10/2004
US	5254923	A	19/10/1993	JP	2880590 B JP 5027815 A	12/04/1999 05/02/1993
EP	1090722	A2	11/04/2001	JP	3538362 B JP 2001150372 A US 6330493 B	14/06/2004 05/06/2001 11/12/2001
WO	03103903	A1	18/12/2003	AU	2003245196 A EP 1436789 A EP 1511600 A SE 524929 C SE 0201761 A	00/00/0000 14/07/2004 09/03/2005 26/10/2004 08/12/2003
US	20040030452	A1	12/02/2004	DE	10235943 A EP 1388397 A	19/02/2004 11/02/2004
EP	1464452	A2	06/10/2004	US	6804580 B US 20040199290 A	12/10/2004 07/10/2004